

GENERAL INFORMATION

DATE

September 9th (Fri)-11th (Sun), 2016

Non-salaried: 4,000 yen

Undergraduate Student: 2,000 yen

VENUE

Rikkyo University (立教大学),
Bldg. #5, Rm.5123 (Oral Presentation)
Bldg. #6, 6206-6211 (Poster Presentation)
Bldg. #6, Rm.6201-6204 (Discussion room)
3-34-1 Nishi-Ikebukuro, Toshima-ku
Tokyo 171-8501, Japan
URL: <http://english.rikkyo.ac.jp/>

BADGES

Badges are required for admission to all session, the reception, and the posters. If you lose your badge, a replacement may be requested at the Registration. Badges may not be used by anyone other than the registered attendee.

LANGUAGE

The primary language used in this meeting is English. However, to encourage active participation of young students, a part of presentations will be delivered in Japanese as well.

LUNCHEON SEMINAR

Lunch at the seminar is provided by Leica microsystems from 12:05 on September 10th (Sat). Lunch tickets will be distributed at the registration desk to people who have already applied. The tickets are needed to receive lunch service at Luncheon seminar due to the limited number of lunch.

REGISTRATION AND BADGE/BOOK

PICKUP

Conference registration and badge/book pickup will be in front of the conference room.
September 9th (Fri), 12:00-19:12
September 10th (Sat), 8:30-18:38
September 11th (Sun), 8:30-15:00

RECEPTION

A dinner party reception will be held from 19:00 on September 10th (Sat) in the Dining Hall at Rikkyo University.

PARTICIPATION FEE

Salaried: 5,000 yen
Non-salaried: 1,000 yen
Undergraduate Student: 0 yen

GENERAL MEETING

General Meeting will be held in Japanese from 13:10 on September 11th (Sun) at Rm.5123.

RECEPTION FEE

Salaried: 6,000 yen

PARKING

No parking area in Rikkyo University.

SMOKING

Smoking is prohibited in Rikkyo University except in designated smoking areas.

CLOAKROOM

Cloak room is available at the Bldg. #5 1F office. No valuable or computer can be checked in to the cloak since the meeting committee does not hold any responsibility for any loss or damage of your items.

Open Hours:

11:00-13:30 and 19:12-20:00 on Sept. 9th.
8:30-9:00, 12:00-13:00 and 18:30-19:00 on Sept. 10th.
8:30-9:00, 12:00-13:00 and 15:00-16:00 on Sept. 11th.

INTERNET

Wi-Fi is available at the Bldg. #6 2F around the help desk. SSID and password will be provided at the site.

ORAL PRESENTATION

Preparation

We DO NOT accept your own laptop PC for presentation. The PC in the session room will be a Mac OSX (Yosemite10.10.5) based Macintosh with Microsoft PowerPoint 2013, and a Windows7 and 8.1 based Windows PC with Microsoft PowerPoint 2010 and 2013. Speakers should bring a USB flash memory containing the presentation file. Be sure to bring a backup copy of your presentation with you to the meeting. Please copy and check your presentation at the conference room well before the session of your presentation. The presentation slides should be prepared

in English.

Time schedule

Total time for an oral presentation is 15 minutes including 3 minutes of discussion. The Time keeper will ring a bell once at 10 minutes, twice at 12 minutes and three times at 15 minutes.

For PowerPoint video users

If you have video images in your PowerPoint presentation, please copy your video clips into the same folder as the PowerPoint file, and provide us the FOLDER (contains both PowerPoint file and video file).

POSTER PRESENTATION

The size of a poster is recommended to be 85 cm (width) x 120 cm (height). Please put your poster number in 20 cm x 20 cm space in the upper left corner. The posters should be prepared in English.

Presentation schedule

Posters will be displayed throughout this meeting.

Poster Posting

By Sept. 10th (Sat) 13:00

Poster Session1

Sept. 10th (Sat), 13:00-14:50

For odd numbered posters

Poster Session2

Sept. 11th (Sun), 9:00-10:40

For even numbered posters

Poster Removal

Sept. 11th (Sun), 10:40-16:00

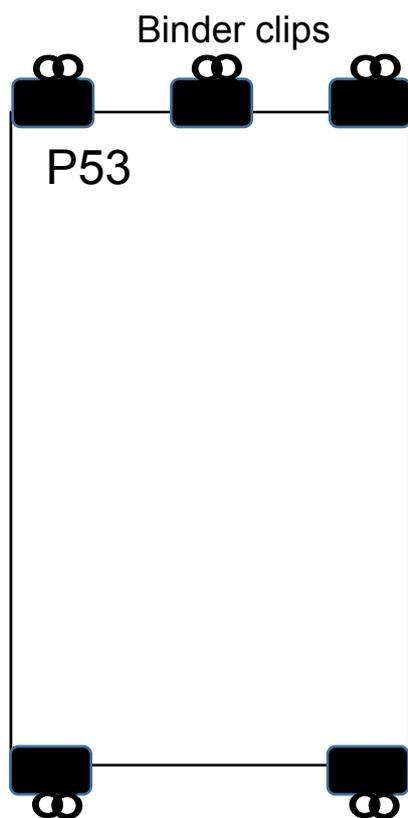
How to post your posters

There are two types of frames for poster posting.

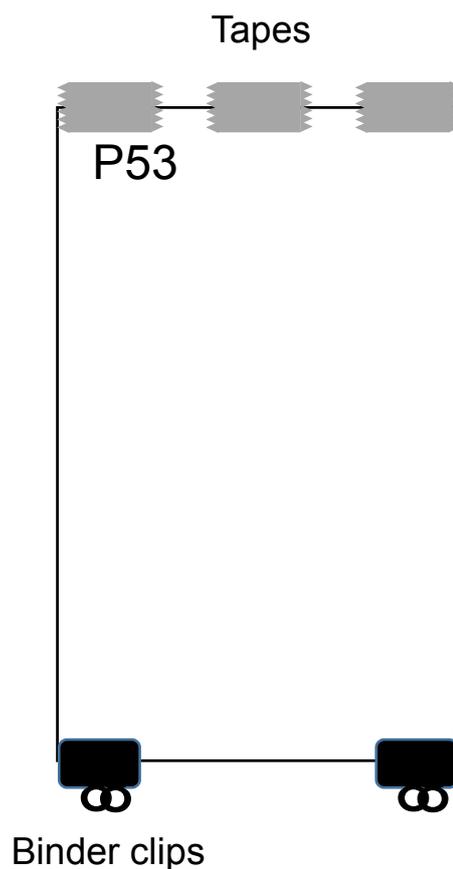
- 1) Skeletal frames
- 2) White boards

- A) In both frames, positions of the posters will be previously assigned. The left ends of each poster position will be indicated by numbered paper leaves. There might be 5cm space between the neighboring posters.
- B) For skeletal frames, you may clip on your poster by binder clips (3 for tops and 2 for bottoms of posters), which you may find on your frame positions.
- C) For white boards, you may fix your posters by tapes in the top of your poster and stabilize it by 2 binder clips at the bottom. You may find tapes and binder clips in your room.
- D) If you have any question, please ask a staff without hesitation.
- E) Good luck!

1) Skeletal frame



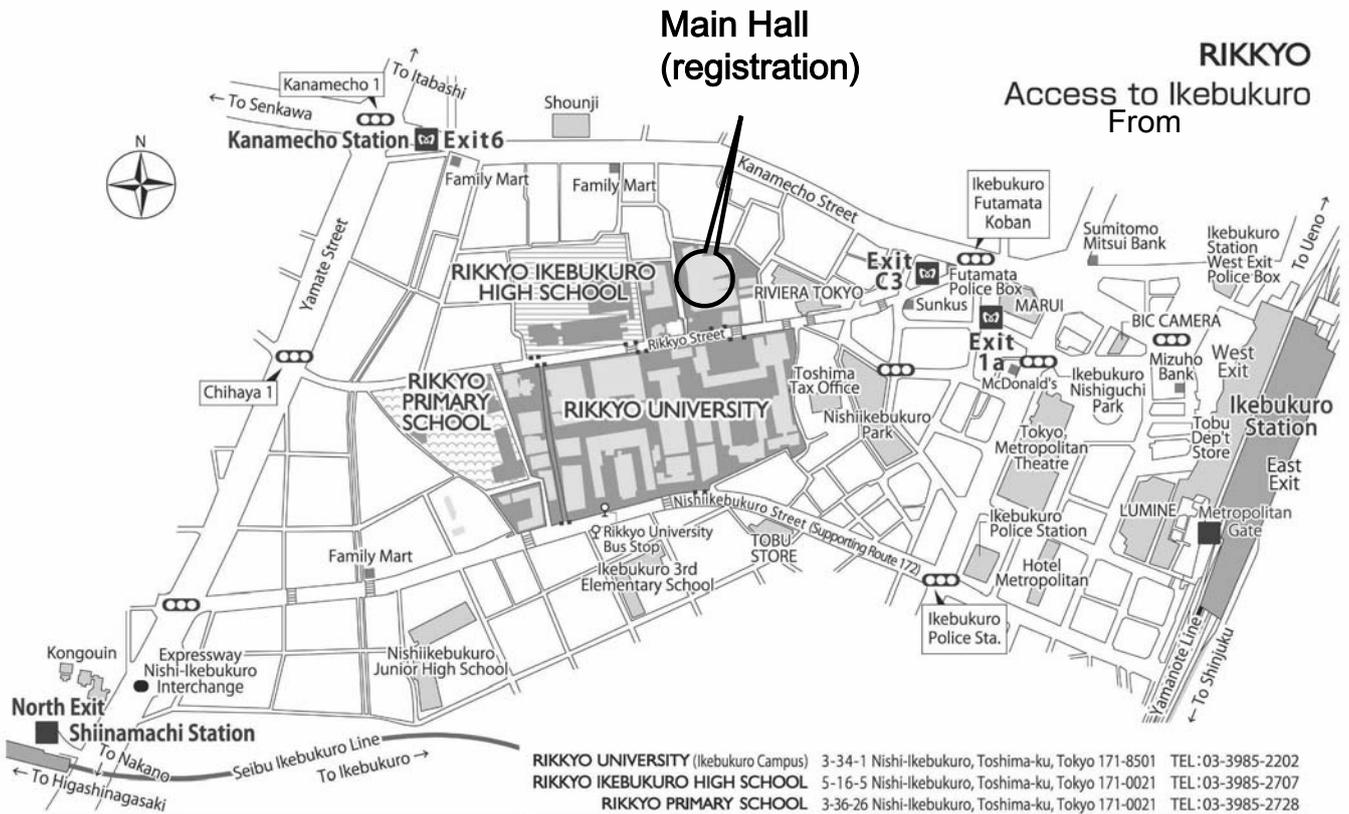
2) White board



JDRC12 schedule at a glance

	Sept 9th (Fly)	Sept 10th (Sat)	Sept 11th (Sun)	
8:00				
8:30		8:30 8:30 Open	8:30 8:30 Open	
9:00	Office(Bldg.#5, Mtg Room) (3days)	9:00 Oral Session 4 (Development #1) 16min x 5 talks Chair: Naoyuki Fuse	9:00 Poster Presentation 2 (Bldg.#6, 2F) even number	
10:00		10:20 Break		
11:00		10:30 Oral Session 5 (Development #2) 16min x 5 talks Chair: Hiroko Sano	10:40 Break	
12:00		11:50 Break	10:50 Oral Session 8 (Senior) 16min x 5 talks Chair: Akira Nakamura	
13:00		12:00 Registration and Poster Posting	12:05 Luncheon (Leica)	12:10 Lunch
14:00		13:30 Opening Remarks: Satoshi Goto	13:00 Poster Presentation 1 (Bldg.#6, 2F) odd number	13:10 General Meeting (in Japanese)
15:00		13:40 Plenary Talk: Teiichi Tanimura 40min Chair: Ken-ichi Kimura		13:40 Session for NBRP
16:00		14:20 Oral Session 1 (Neurobiology #1) 16min x 6 talks Chair: Shu Kondo		14:40 Moriwaki Award Presentation Closing Remarks: Satoshi Goto
17:00		15:56 Break	14:50 Break	15:00 Withdrawal
18:00		16:06 Oral Session 2 (Neurobiology #2 Physiology #1) 16min x 6 talks Chair: Takeshi Awasaki	15:00 Oral Session 6 (Cell Biology and Signaling) 16min x 7 talks Chair: Akiko Satoh	
19:00	17:42 Break	16:52 Break	17:00	
20:00	17:52 Oral Session 3 (Physiology #2, genome and evolution) 16min x 5 talks Chair: Ayako Tonoki	17:02 Oral Session 7 (Senior) 16min x 6 talks Chair: Shoichiro Kurata		
	19:12	18:38 Break		
		19:00 Reception Main Dining Hall 120 min MC: Satoshi Goto Closing Remarks: Tatsushi Igaki		
		21:00		

Information
Transportation & Site Map



RIKKYO UNIVERSITY (Ikebukuro Campus) 3-34-1 Nishi-Ikebukuro, Toshima-ku, Tokyo 171-8501 TEL: 03-3985-2202
 RIKKYO IKEBUKURO HIGH SCHOOL 5-16-5 Nishi-Ikebukuro, Toshima-ku, Tokyo 171-0021 TEL: 03-3985-2707
 RIKKYO PRIMARY SCHOOL 3-36-26 Nishi-Ikebukuro, Toshima-ku, Tokyo 171-0021 TEL: 03-3985-2728

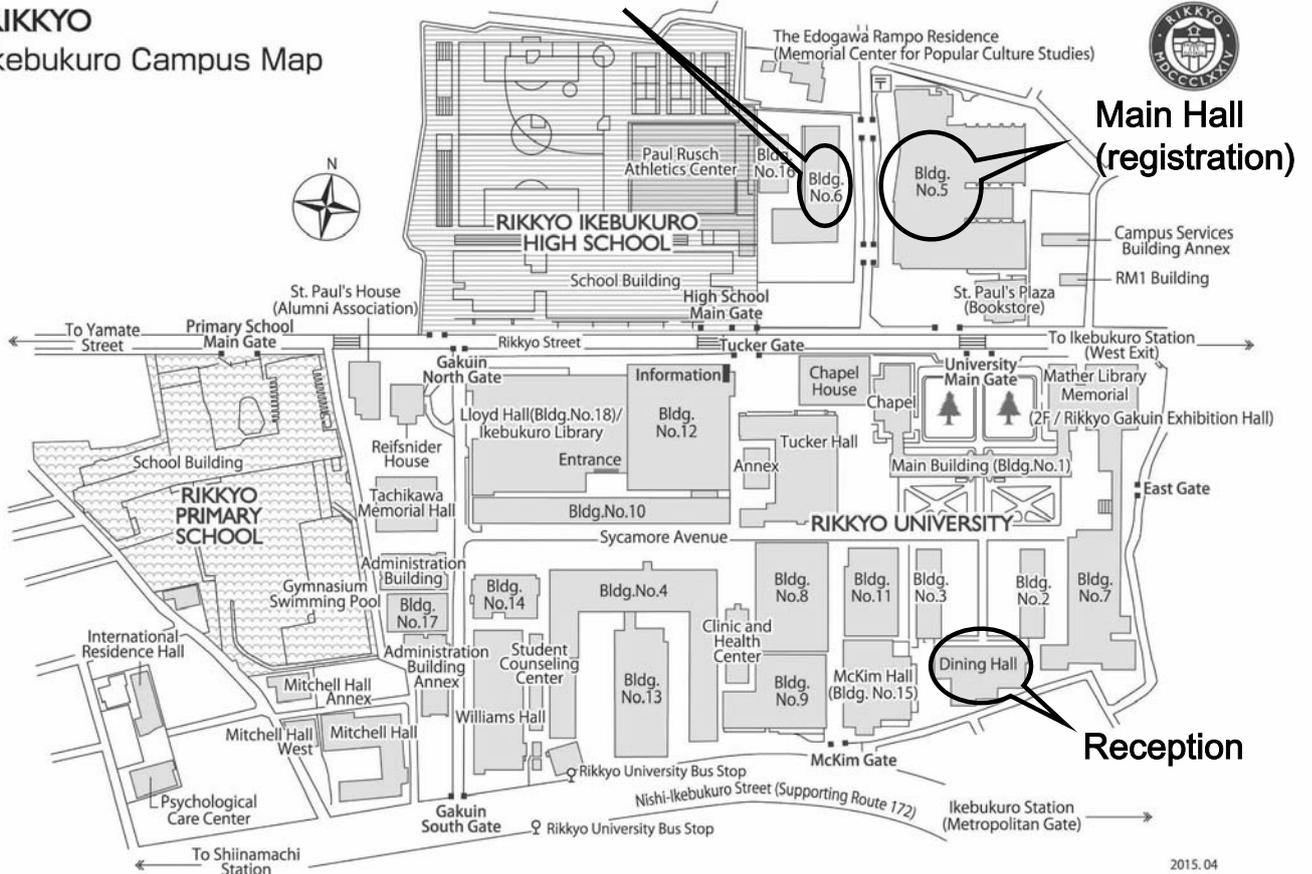
Ikebukuro Station	■ JR Line: Yamanote, Saikyo, Shonan-Shinjuku Line	Kanamecho Station	■ Tokyo Metro: Yurakucho, Fukutoshin Line	Shiinamachi Station	■ Seibu Ikebukuro Line
	■ Tobu Tojo Line ■ Seibu Ikebukuro Line		<Exit6> 6min. walk to the University Main Gate		<North Exit> 12min. walk to the Mckim Gate
	■ Tokyo Metro: Marunouchi, Yurakucho, Fukutoshin Line				

<West Exit> 7min. walk to the University Main Gate

2015.04

Poster Hall (2F)

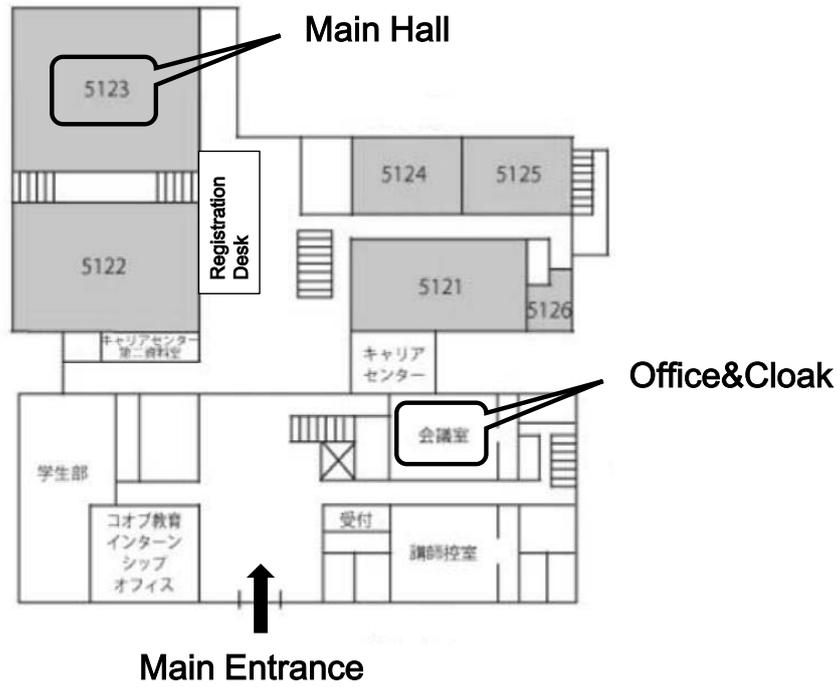
RIKKYO
 Ikebukuro Campus Map



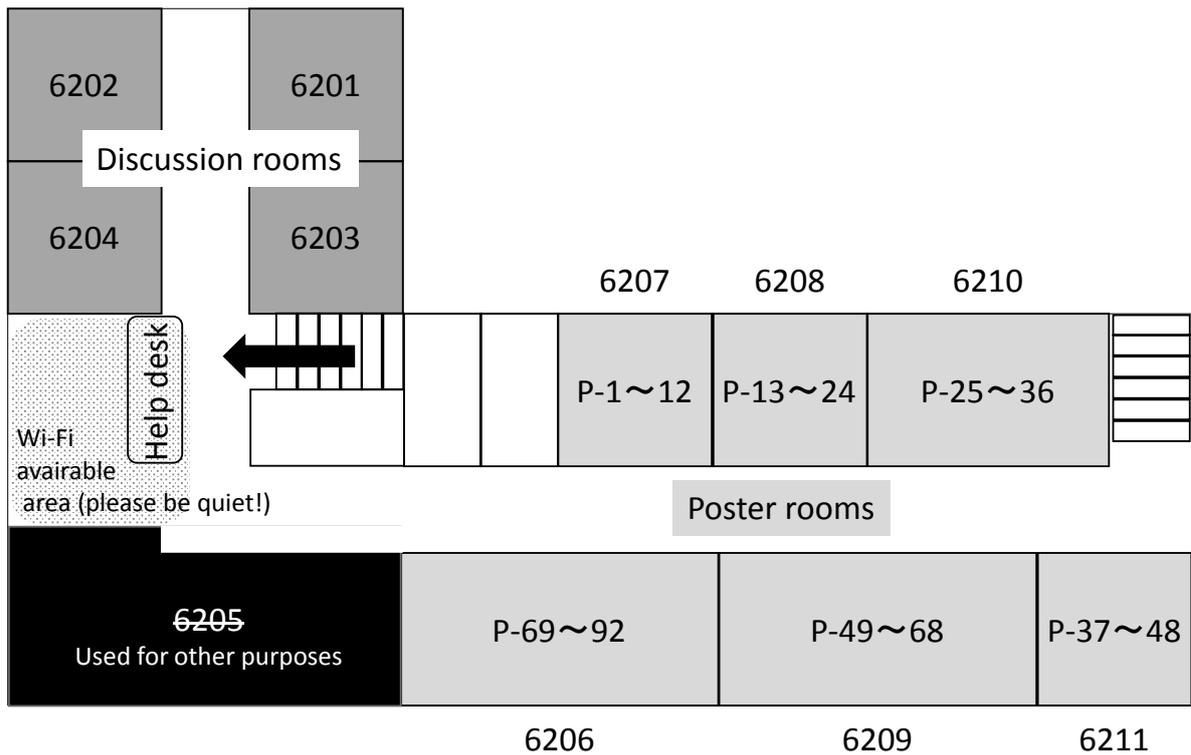
2015.04

Floor Maps

Bldg.#5, 1F



Bldg.#6, 2F



Flyday, Sept. 9th ; 13:40-14:20

Plenary Lecture

Chair: Ken-ichi Kimura

Outa Uryu, Ryusuke Niwa

Faculty of Life and Environmental Sciences, University of
Tsukuba

Decision Making in *Drosophila*

Teiichi Tanimura

Graduate School of Systems Life Sciences, Kyusyu Univ.

S1-5 15:24-15:40

**Identification of neuroendocrine pathways
regulating female germline stem cell
proliferation in *Drosophila***

Yuto Yoshinari¹, Tomotsune Ameku¹, Shu Kondo², Yuko
Shimada-Niwa², and Ryusuke Niwa^{3,4}

1) Graduate School of Life and Environmental Sciences,
University of Tsukuba; 2) Genetic Strains Research
Center, National Institute of Genetics; 3) Life Science
Center of Tsukuba Advanced Research Alliance,
University of Tsukuba; 4) Faculty of Life and
Environmental Sciences, University of Tsukuba; 5)
PRESTO, Japan Science and Technology Agency

Flyday, Sept. 9th ; 14:20-15:56

Oral Session 1

Chair: Shu Kondo

S1-1 14:20-14:36

**Experience-dependent tuning of the
auditory behavior in *Drosophila***

Xiaodong Li, Hiroshi Ishimoto, Azusa Kamikouchi

Graduate School of Science, Nagoya University

S1-6 15:40-15:56

**A gene network for nociceptive neuron
development and function**

Caroline Delandre¹, Andrew T Kwon², Saori Akimoto¹,
Koji Wada¹, Yukihiko Noro^{1,2}, Ben Torben-Nielsen³,
Adrian W Moore¹

1) RIKEN Brain Science Institute, Wako, Japan; 2) RIKEN
Center for Life Science Technologies, Yokohama, Japan;
3) University of Hertfordshire, Hertfordshire, United
Kingdom

S1-2 14:36-14:52

**Species-specific auditory behavior of four
Drosophila species**

Yusuke Yoneyama, Eriko Matsuo, Yuki Ishikawa, Azusa
Kamikouchi

Graduate School of Science, Nagoya University

S1-3 14:52-15:08

**Exploring the function of auditory sensory
neurons that respond to broad-frequency
sound**

Hyunsoo Kim, Yuki Ishikawa, Azusa Kamikouchi

Graduate School of Science, Nagoya University

Break 15:56-16:06

S1-4 15:08-15:24

**Molecular and cellular mechanisms
controlling development of the clock
neurons in the fruit fly *Drosophila
melanogaster***

Flyday, Sept. 9th ; 16:06-17:42

Oral Session 2

Chair: Takeshi Awasaki

S2-1 16:06-16:22

Neuronal screening to fill the missing links between the sugar sensation and the motor/reward systems

Takaaki Miyazaki^{1,2,3}, Tzu-Yang Lin¹, Emiko Suzuki³, Chihon Lee¹, Mark Stopfer¹, Kei Ito²

1) NIH-NICHD 2) IMCB, Univ. Tokyo 3) National Institute of Genetics

S2-2 16:22-16:38

Phenotypic analysis of a *fruitless* mutant and CRISPR-mediated transgenesis in *D. subobscura*

Ryoya Tanaka, Hinata Murakami, Kosei Sato, Daisuke

Yamamoto

Tohoku University

S2-3 16:38-16:54

Notch signaling in glial cells regulates long-term memory in *Drosophila*

Saho Yoshioka¹, Wataru Kobayashi¹, Saki Nagai¹,

Takeshi Awasaki², Motoyuki Itoh¹, Ayako Tonoki¹.

1) Chiba University, 2) Kyorin University

S2-4 16:54-17:10

Dendritic Eph defines pheromone-sensing circuit via dendrite-dendrite segregation in *Drosophila*

Marie Anzo¹, Sayaka Sekine¹, Kinhon Chao¹, Shirin

Makihara¹, Masayuki Miura^{1,2}, Takahiro Chihara^{1,3}

1) University of Tokyo, 2) AMED 3) Hiroshima University

S2-5 17:10-17:26

Sugar intake regulated by the neurons expressing serotonin receptor 5-HT_{2A}R in the insulin pathway in *Drosophila*

Yuta Mabuchi¹, Nobuaki Tanaka^{1,2}

1) Hokkaido University, 2) PRESTO, JST

S2-6 17:26-17:42

S-adenosylmethionine governs *Drosophila* intestinal homeostasis

Kayoko Tsuda-Sakurai^{1,2}, Fumiaki Obata^{1,3}, Takahiro Yamazaki¹, Kei Nishimura¹, Masayuki Miura^{1,2}

1) Grad. Sch. of Pharm. Sci., Univ. of Tokyo, 2)

AMED/CREST, 3) The Francis Crick Institute, UK

Break 17:42-17:52

Flyday, Sept. 9th ; 17:52-19:12

Oral Session 3

Chair: Ayako Tonoki

S3-1 17:52-18:08

Gr64a-f* genes contribute to the variation of fructose sensitivity in natural population of *Drosophila melanogaster

Shun Uchizono, Taichi Q Itoh, Teiichi Tanimura

Graduate School of Systems Life Sciences, Kyushu University

S3-2 18:08-18:24

Sense of softness mediated by TRP channels, nanchung and nompC, in *Drosophila* larvae

Nana Kudo, Teiichi Tanimura

Department of Biology, Kyushu University

S3-3 18:24-18:40

Metabolomic analysis of egg activation in *Drosophila*

Misato Yamamoto, Taro Kaneuchi, Yukiko Sato, Satomi

Takeo, Toshiro Aigaki

Laboratory of Cellular Genetics, Department of Biological Sciences, Tokyo Metropolitan University

S3-4 18:40-18:56

Coevolution of male and female genitalia in *Drosophila suzukii* driven by changes in ovipositor shape

Leona Muto¹, Yoshitaka Kamimura², Kentaro Tanaka¹, Aya Takahashi¹

1) Tokyo Metropolitan University, 2) Keio University

S3-5 18:56-19:12

Enhancer activity of human ultra-conserved elements in fruit fly

Takashi Ohsako¹, Ryosuke Nakano², Takeru Matsuda³, Takeshi Awasaki⁴, Masatoshi Tomaru², Timothy L. Karr², Toshiyuki Takano²

1) Adv. Tech. Cent., Kyoto Inst. Tech., 2) Dept. Dros. Genomics Genet. Res., Kyoto Inst. Tech., 3) Dept. Appl. Biol., Kyoto Inst. Tech., 4) Kyorin University

Saturday, Sept. 10th ; 9:00-10:20

Oral Session 4

Chair: Naoyuki Fuse

S4-1 9:00-9:16

Tetragonal versus hexagonal tiling of the *Drosophila* eye

Takashi Hayashi¹, Masakazu Akiyama², Makoto Sato¹

1) Kanazawa University, 2) Hokkaido University

S4-2 9:16-9:32

Physical regulation of whole body shape by Obstructor-E, a constituent of the larval cuticle

Reiko Tajiri, Haruhiko Fujiwara, Tetsuya Kojima

Grad. Sch. Frontier Sciences, University of Tokyo

S4-3 9:32-9:48

Wnt proteins serve as directional cues for the Par-complex polarity and the *Drosophila* nervous tissue growth

Shigeki Yoshiura, Fumio Matsuzaki

RIKEN Center for Developmental Biology

S4-4 9:48-10:04

Nanopatterning of cuticle: How to make nanopores on *Drosophila* olfactory sensilla

Toshiya Ando^{1,3}, Kazuyo Misaki², Shigenobu Yonemura², Shigeo Hayashi¹

1) RIKEN CDB, Laboratory for Morphogenetic Signaling, 2) RIKEN CLST, Ultrastructural Research Team, 3) NIBB, Division of Evolutionary Developmental Biology

S4-5 10:04-10:20

Cell death enzymes accelerate *Drosophila* wing growth to ensure the bilateral symmetry of wing size

Natsuki Shinoda¹, Takahiro Chihara^{1,3}, Akiko Koto^{1,2}, Masayuki Miura^{1,2}

1) The University of Tokyo, 2) CREST-AMED, 3) Hiroshima University

Break 10:20-10:30

Saturday, Sept. 10th ; 10:30-11:50

Oral Session 5

Chair: Hiroko Sano

S5-1 10:30-10:46

Determining molecular mechanisms for tissue non-autonomous responses to disc damage in *Drosophila melanogaster*

Tomonori Katsuyama^{1,2}, Soshiro Kashio¹, Mandi Zhou¹, and Masayuki Miura^{1,2}

1) Department of Genetics, Graduate school of Pharmaceutical Sciences, University of Tokyo, 2) AMED-CREST, AMED

S5-2 10:46-11:02

Glutathione biosynthesis is essential for larval development in the fruit fly *Drosophila melanogaster*

Chikana Yamamoto¹, Sora Enya¹, Hajime Mizuno², Takeshi Esaki², Masatoshi Iga³, Hiroshi Kataoka³, Tsutomu Masujima², Ryusuke Niwa^{4,5}

1) Graduate School of Life and Environmental Sciences, University of Tsukuba; 2) Laboratory of Single-Cell Mass Spectrometry, RIKEN QBiC; 3) Graduate School of Frontier Sciences, The University of Tokyo; 4) Faculty of Life and Environmental Sciences, University of Tsukuba; 5) PRESTO, JST

S5-3 11:02-11:18

Mechanical competition for the lost territory of apoptotic cells in heterogeneously proliferating tissue

Alice Tsuboi¹, Shizue Ohsawa², Tatsushi Igaki², Koichi Fujimoto¹

1) Osaka University, 2) Kyoto University

S5-4 11:18-11:34

Identification and characterization of an “insect epididymis”

Timothy Karr

Kyoto Institute of Technology

S5-5 11:34-11:50

Winged Eye induces imaginal disc transdetermination through heterochromatin formation

Keita Masuko, Hirofumi Furuhashi, Naoyuki Fuse, Shoichiro Kurata

Graduate School of Pharmaceutical Science, Tohoku University

Luncheon 12:05-13:00

Saturday, Sept. 10th ; 13:00-14:50

Poster Session 1

Odd number

Saturday, Sept. 10th ; 15:00-16:52

Oral Session 6

Chair: Akiko Satoh

S6-1 15:00-15:16

Genetic identification of Pointed/ETS transcriptional factor as a regulator of senescence-mediated tumor progression in *Drosophila*

Takao Ito, Masato Enomoto, Tatsushi Igaki

Graduate School of Biostudies, Kyoto University

S6-2 15:16-15:32

Genetic and mathematical dissection of tumor heterogeneity that causes cancer progression

Masato Enomoto¹, Honda Naoki², Daisaku Takemoto¹,

and Tatsushi Igaki¹

1) Laboratory of Genetics, Graduate School of Biostudies, Kyoto University, 2) Imaging Platform for Spatio-Temporal Information, Graduate School of Medicine, Kyoto University

S6-3 15:32-15:48

Neuropeptides regulate mating-induced proliferation of germline stem cells

Tomotsune Ameku¹, Yuto Yoshinari¹, Shu Kondo², Yuko Shimada-Niwa³, Ryusuke Niwa^{4,5}

1) Graduate School of Life and Environmental Sciences, University of Tsukuba 2) Genetic Strains Research Center, National Institute of Genetics 3) Life Science Center of Tsukuba Advanced Research Alliance, University of Tsukuba 4) Faculty of Life and Environmental Sciences, University of Tsukuba 5) PRESTO, Japan Science and Technology Agency

S6-4 15:48-16:04

Genetic screen in *Drosophila* muscle identifies autophagy-mediated T-tubule remodeling

Naonobu Fujita^{1,2}, Mitsunori Fukuda¹, and Amy Kiger²

1) Tohoku University, 2) University of California, San Diego

S6-5 16:04-16:20

Oocyte polarity establishment and germ plasm assembly require the endocytic regulation of the yolk protein receptor *Yolkless*

Tsubasa Tanaka^{1,3}, Sachiko Otsu¹, Naoki Tani², and Akira Nakamura^{1,3}

1) Department of Germline Development, Institute of Molecular Embryology and Genetics (IMEG), 2) Liaison Laboratory Research Promotion Center, IMEG, 3)

Graduate School of Pharmaceutical Sciences, Kumamoto University

S6-6 16:20-16:36

Identification of novel microtubule-associated proteins that contribute to the epithelial morphogenesis through the Wnt/PCP signaling pathway

Koji Kikuchi¹, Tsubasa Tanaka², Masaki Arata³, Dongbo Shi⁴, Akira Nakamura², Tadashi Uemura³, Toshihiko Fujimori⁴, Hiroyuki Nakanishi¹

1) Dept. Mol. Pharm., Grad. Sch. of Med. Sci., Kumamoto Univ., 2) Dept. Germline Dev., IMEG, Kumamoto Univ., 3) Grad. Sch. of Biostudies, Kyoto Univ., 4) Div. of Embryology, NIBB

S6-7 16:36-16:52

Abnormal planar spindle orientation induces cellular plasticity in *Drosophila* epithelia

Yu-ichiro Nakajima¹, Christopher Seidel² and Matthew C. Gibson²

1) Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, 2) Stowers Institute for Medical Research, USA

Break 16:52-17:02

Saturday, Sept. 10th ; 17:02-18:38

Oral Session 7

Chair: Shoichiro Kurata

S7-1 17:02-17:18

Neuronal processing of harmful stimuli mediated by dendritic Ca²⁺ rises and specific firing patterns

Tadao Usui¹, Koun Onodera¹, Shin-Ichiro Terada¹,
Daisuke Matsubara¹, Masanori Matsuzaki³, Risa
Nishimura¹, Akira Murakami², Naoki Honda⁴, and
Tadashi Uemura¹

1) Graduate School of Biostudies, Kyoto University, 2)
Faculty of Science, Kyoto University, 3) National Institute
for Basic Biology, 4) Research and Education Platform
for Innovative Research on Dynamic Living Systems
Based on Multi-Dimensional Quantitative Imaging and
Mathematical Modeling, Kyoto University

S7-2 17:18-17:34

**Visualization and manipulation of neural
circuit activated by courtship behavior in
the brain of *Drosophila melanogaster*,
using a neural activity marker gene, *Hr38***

Taketoshi Kiya, Masafumi Iwami
Kanazawa University

S7-3 17:34-17:50

**Two receptor tyrosine phosphatases
dictate the depth of final axonal stabilizing
layer in the *Drosophila* visual system**

Satoko Hakeda-Suzuki, Hiroki Takechi and Takashi
Suzuki
Graduate School of Life Science and Technology, Tokyo
Institute of Technology

S7-4 17:50-18:06

**A critical role of insulin-like signaling in
memory maintenance and age-related
memory impairment in *Drosophila***

Ayako Tonoki, Kento Tanabe, Motoyuki Itoh
Chiba University

S7-5 18:06-18:22

**The role of the novel periphery-to-brain
signaling by the CCHa2 peptide in the
coupling of growth to nutritional status**

Hiroko Sano¹, Akira Nakamura², Michael J. Texada³,
James W. Truman³, Hiroshi Ishimoto⁴, Azusa Kamikouchi⁴,
⁵, Yutaka Nibu⁶, Kazuhiko Kume⁷, Takanori Ida⁸, Daisuke
Yamamoto⁹, Masayasu Kojima¹

1) Kurume University, 2) Kumamoto University, 3) Janelia
Research Campus, HHMI 4) Nagoya University, 5)
PRESTO, 6) Cornell University, 7) Nagoya City University,
8) University of Miyazaki, 9) Tohoku University

S7-6 18:22-18:38

**Tissue geometry triggers a positive
transcriptional feedback for the
maintenance of tubular epithelial
architecture**

Takefumi Kondo^{1,2,3} and Shigeo Hayashi³

1) Graduate School of Biostudies, Kyoto University, 2)
Keihanshin Consortium for Fostering the Next Generation
of Global Leaders in Research (K-CONNEX), Kyoto
University, 3) RIKEN Center for Developmental Biology

Saturday, Sept. 10th ; 19:00-21:00

Reception

Main Dining Hall

Sunday, Sept. 11th ; 9:00-10:40

Poster Session 2

Even number

Sunday, Sept. 11th ; 10:50-12:10

Oral Session 8

Chair: Akira Nakamura

S8-1 10:50-11:06

Establishment of new model system for Alzheimer's disease using *Drosophila*

Leo Tsuda, Yasutoyo Yamasaki, Young-Mi Lim

National Center for Geriatrics and Gerontology

S8-2 11:06-11:22

Dietary restriction improves intestinal cellular fitness through *dMyc* to enhance gut barrier function and lifespan in *D. melanogaster*

Kazutaka Akagi^{1,2}, Subhash D. Katewa¹, Kenneth A.

Wilson¹, Mauricio Ortega¹, Jesse Simmons¹, Subir Kapuria¹, Heinrich Jasper¹, Pankaj Kapahi¹

1) Buck Institute for Research on Aging, 2) National Center for Geriatrics and Gerontology

S8-3 11:22-11:38

The molecular basis of distinct responses to nutrient balances between *Drosophila* generalist and specialist species

Yukako Hattori¹, Kaori Watanabe¹, Yuuki Takahashi¹, Yuki

Furumizo¹, Hironobu Uchiyama², Shunsuke Yajima², Masayoshi Watada³, Tadashi Uemura¹

1) Graduate School of Biostudies, Kyoto University, 2) NODAI Genome Research Center, Tokyo University of Agriculture, 3) Graduate School of Science and Engineering, Ehime University

S8-4 11:38-11:54

An evolutionarily ancient role for Plexins during epithelial repair in *Drosophila* and zebrafish

Sa Kan Yoo¹, Heath G. Pascoe², Telmo Pereira³, Shu

Kondo⁴, Antonio Jacinto³, Xuewu Zhang², Iswar Hariharan⁵

1) RIKEN, 2) University of Texas Southwestern Medical Center, 3) CEDOC, Chronic Diseases Research Centre, 4) National Institute of Genetics, 5) UC-Berkeley

S8-5 11:54-12:10

Homeostasis of an apical microtubule network coupled to basal shifts of polarity propels cell shortening during epithelial folding

Yu-Chiun Wang, Michiko Takeda, Mustafa Sami

Laboratory for Epithelial Morphogenesis, RIKEN Center for Developmental Biology

Sunday, Sept. 11th ; 13:10-13:40
General Meeting (In Japanese)

Sunday, Sept. 11th ; 13:40-14:40
Session for NBRP

Sunday, Sept. 11th ; 14:40-15:00
Moriwaki Award Presentation

Poster Session

P-1

Context-dependent functions of Pecanex in Notch and other signaling pathways

Tomoko Yamakawa, Puspa Das, Izumi Morita, Kenji Matsuno
Osaka University

P-2

Transcriptome analysis to identify genes responding to mechanical force in *Drosophila* embryos

Tomoki Ishibashi¹, Katsushi Yamaguchi², Shuji Shigenobu², Yuya Takahashi³, Kenta Shinha³, Hiroshi Kimura³, Kenji Matsuno¹
1) Osaka University, 2) National Institute for Basic Biology, 3) Tokai University

P-3

Novel role of Notch signaling via cross-talk with Toll signaling in dorsal-ventral axis formation

Satoshi Kuwana¹, Takuma Gushiken¹, Kenjiro Matsumoto¹, Martin Baron², Kenji Matsuno¹
1) Department of Biological Sciences, Osaka University, 2) University of Manchester, Faculty of Life Sciences

P-4

Dynamics of subcellular localization of Four-jointed in imaginal disc development

Hodaka Shiraishi, Yoko Kubo, Yoko Keira, Hiroyuki O. Ishikawa
Chiba University

P-5

An overexpression screen identifies

regulators of cell-cell signaling

Moe Wada, Tomoko Tanaka, Yuka Doi, Hiroyuki O. Ishikawa
Chiba University

P-6

Dissecting the mechanism of tumor progression triggered by polyploid giant cells in *Drosophila*

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Rab6 is required for multiple apical transport pathways but not the basolateral transport pathway in *Drosophila* photoreceptors

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The mechanism of the domain formation within apical membrane in *Drosophila* photoreceptors

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A Link between Mechanical Control of Tissue Growth and Cell Competition

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Toward Quantitative Analysis of Cell-autonomous Polarization in Asymmetric Cell Division by Reconstruction Approach in S2 cells

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Invagination in polar coordinate system: role of radially propagating EGFR-ERK signaling for the invagination of disc-shaped tracheal placode

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Useful ImageJ plug-ins for biological image analysis

Housei Wada, Shigeo Hayashi
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Divergence of structural strategies for E-cadherin homophilic binding among bilaterians

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Mechanotransduction mechanisms in compensatory cellular hypertrophy

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Functional Analysis of Apontic during *Drosophila* endocycle

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Localization of PIG-B involved in GPI anchor synthesis in *Drosophila*

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The progression of the first mitosis and diploidization in parthenogenetic embryos of *Drosophila ananassae*

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Scaling of critical weight for

metamorphosis in the genus *Drosophila*

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Investigating the mechanism of crowding-induced cell elimination

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Establishing a system for investigating cellular reprogramming process during disc regeneration in *Drosophila melanogaster*

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An oogenic stage-specific RNAi screening for novel maternal-effect genes regulating germ cell development in the *Drosophila* embryo

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A novel genetic strategy to investigate

embryonic roles of maternal factors with essential functions in oogenesis

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***eye missing (eym)* is a new allele of *eye gone (eyg)* necessary for *Drosophila* eye development**

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***polished rice* is essential for tip cell specification and tubular fusion of tracheal dorsal branch**

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Screening for modifier genes of *polished rice* gain-of-function phenotypes : Results of second and third chromosomes

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Degradation mechanism of a transcriptional repressor dBlimp-1, which regulates pupation timing

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Expression pattern and function of transcriptional repressor Blimp-1 at late larval period

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The Hippo-mediated morphogenetic robustness during *Drosophila* wing development

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Genetic analysis of programmed cell senescence in *Drosophila*

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Identification and characterization of novel neurons projecting to the prothoracic

gland in *Drosophila melanogaster*

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Functional analysis of a transmembrane protein gene regulating the timing of steroid hormone biosynthesis in *Drosophila melanogaster*

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The effect of the parasitic wasp *Asobara japonica* on the development of its host, the fruit fly *Drosophila melanogaster*

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Mathematical modeling and genetic analysis of the proneural wave

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Study the role of zona pellucida domain (ZPD) proteins in apical extracellular matrix during epithelial morphogenesis and wound healing

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Involvement of cytoskeletal actin and myosin in the corneal protrusion formation of *Drosophila melanogaster*

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Analysis of the in vivo function of GW182 in *Drosophila melanogaster*

Eriko Matsuura, Yukihide Tomari

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A Novel Function of *dSki3* / a *Drosophila* homologue TTC37 related to

Trichohepatoenteric Syndrome

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Cross-talk of the hypoxic response and insulin signal control fat accumulation mechanism in *Drosophila* fat body

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Screening of type 2 diabetes candidate genes in the OLETF rat using *Drosophila*

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Analysis of genes which can suppress anti-bacterial gene promoter

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E3 ubiquitin ligase Sherpa mediates Toll innate immune signaling in *Drosophila*

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Screening of glycosyltransferase involved in innate immunity in *Drosophila*

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Mapping dopamine receptor expression in the fly brain

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Replacement of the glial architecture in *Drosophila* central brain during metamorphosis

Takeshi Awasaki, Yuko Umeki, Masami Tomura, Kentaro Kato
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Novel Functional of a set of fourth order olfactory neurons involved in aversive memory in *Drosophila*

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A genetic approach for the understanding of the brain environment that regulates the plasticity of neural stem cells

Hiroshi Kanda, Rieko Shimamura, Taro Yamaguchi, Michiko Koizumi -Kitajima, Hideyuki Okano
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Lobe-less RNA is necessary for establishment of neural circuits in *Drosophila* mushroom body

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Signaling pathway and glial subtype required for dead neural cell clearance in the developing *Drosophila* optic lobe

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Effect of inhibition of synaptic delivery of APP by loss-of-function of *yata* for the *Drosophila* Alzheimer's disease model

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Regulation of Acetylcholine receptor clustering by synaptic cleft protein Hig and the receptor subunits

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A developmental stage-specific regulatory mechanism of synaptic transport of the *Drosophila* Hikaru genki protein

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Comparative studies of the nocifensive behaviors of *Drosophila* species and the firing properties of the somatosensory neurons

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Identification of the enhancer region required for expression of *pigment-*

***dispersing factor* gene in *Drosophila* clock neurons**

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A Screen and Functional Analysis of Neuropeptides Involved in Nociception in *Drosophila melanogaster*

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The genes required for the synaptic remodeling in the *Drosophila* visual system

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Elucidating molecular mechanism of synaptic plasticity in living fruit fly using membrane potential proteins

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The source of Wg that is secreted in activity-dependent synaptic plasticity

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Alteration in synaptic connection patterns in-vivo for different natural stimulations

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The transplantation of the retinal precursor cells into the adult *Drosophila* retina

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The transmembrane protein Golden goal recognizes the correct column at the medulla neuropil border during R8 axons targeting

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Roles of Dscam family cell adhesion molecules in the development of *Drosophila* medulla

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Roles of N-cadherin in the *Drosophila* medulla formation

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Integration of auditory and visual signals in *Drosophila melanogaster*

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Neural basis for species-specific pheromone preference in *Drosophila*

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Hunger-state modulates stability of courtship memory via peptide hormone NPF

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Heterogeneity of antennal mechanosensory neurons that respond to high-frequency sound in fruit flies

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Neural basis of species-specific pheromone response in *Drosophila*

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Plasticity in the auditory behavior of fruit flies

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Response properties of local interneurons in the fly auditory system

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Dopaminergic neurons in the VNC regulate reproductive posture of *Drosophila*

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Organization of Neuronal Subgroups in the Scolopidia of Johnston's Organ

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Dissecting taste sensation of ATP in *Drosophila* and mosquitoes

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Diurnal changing in feeding amount of amino acids in *Drosophila melanogaster*

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Fat body methionine metabolism remotely affects regenerative response in *Drosophila* imaginal disc

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Genetic screening of the secretory mediators for tissue regeneration in *Drosophila*

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Investigating the functionality of guarana using *Drosophila*

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Succinyl CoA synthetase α subunit is required for optimum development in *Drosophila*

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Binucleation of male accessory gland cells elevates reproductive capacity in *Drosophila*

Kiichiro Taniguchi, Takashi Adachi-Yamada
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An unbiased approach to understanding the nutrient basis of budding yeast driving

***Drosophila* larval development**

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Deciphering distinct dietary responses governing growth among *Drosophila* species by comparative multi-omics approaches

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Discovery of chemical inhibitors for the insect steroidogenic enzyme Noppera-bo

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Ehime-fly Provides Reliable Stocks of Wild Type of 135 Species for Japanese and World *Drosophila* Researchers

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The investigation of the physiological function of the Oxytocin-like peptide in social insects, ants

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Genetic bases of the association between body color variation and environmental stress tolerances in *Drosophila melanogaster*

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The genetic basis of rapid morphological diversification of male genitalia

Kentaro Tanaka, Aya Takahashi

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Interaction among nucleoporins and reproductive isolation in *Drosophila*

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Inheritance pattern of female mating receptivity in *Drosophila prolongata*

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piggyBac and phiC31 mediated genetic transformation of *Drosophila prolongata*

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Social context-dependent modification of courtship behavior in *Drosophila prolongata*

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The expression analysis of the Oxytocin-like peptide, inotocin in ants

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National BioResource Project “*Drosophila*”

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Consequences of Abruptex Mutations on Notch trafficking and signal regulation

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